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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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INTERNATIONAL APPLICATION NO.

PCT/CH99/00142

INTERNATIONAL FILING DATE

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none

TITLE OF INVENTION

METHOD AND SYSTEM FOR ORDERING, LOADING AND USING ADMISSION TICKETS

APPLICANT(S) FOR DO/EO/US

RITTER Rudolf et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☒ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☐ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

Request for Consideration of Documents Cited in International Search Report

Drawings (1 Sheet)

Form PTO-1595

Amended Sheets (pages 2, 2a, 2b, 14, 15, 16, 17, and 18)

213933US-2 PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: :
RUDOLF RITTER ET AL : ATTN: APPLICATION DIVISION
SERIAL NO: NEW U.S. PCT APPLN. :
(BASED ON PCT/CH99/00142)
FILED: HEREWITH :
FOR: METHOD AND SYSTEM FOR
ORDERING, LOADING AND USING
ADMISSION TICKETS

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to a first examination on the merits, please amend the above-identified
application as follows:

IN THE CLAIMS

Please cancel Claims 1-20 without prejudice.

Please add new Claims 21-40 as follows:

21. (New) A method for ordering, loading, and using admission tickets for access to
access-controlled service devices, in which method admission tickets are stored in a memory
module of a mobile communications terminal, in which method data are exchanged between

the memory module and a reading device of a respective service device by a contactless interface, in which method a decision about access authorization of the user of the mobile communications terminal is made taking into account ticket information contained in the admission ticket, and in which method, in accordance with the decision made, access of the user to the respective service device is granted or denied by an access device connected to the reading device, comprising:

ordering at least one admission ticket from a reservation center through transmission of order data by an order channel, of various possible order channels, to the reservation center, the order data containing a call number of the mobile communications terminal; and

transmitting the ordered admission ticket by a mobile network to that mobile communications terminal, to which the call number contained in the order data is assigned.

22. (New) The method according to claim 21, wherein the admission tickets each contain a ticket number which is provided with a digital signature, the admission ticket stored in the memory module is transmitted to the reading device, access data are transmitted from the reservation center to the reading device, and the decision about access authorization is made taking into account the access data and by checking the signature.

23. (New) The method according to claim 21, wherein the admission tickets contain ticket information about at least one access-controlled service device, the decision about access authorization is made taking into account the ticket information and with a positive decision the admission ticket stored in the memory module is marked as used.

24. (New) The method according to claim 23, wherein the ticket information is transmitted to the reading device and the decision is made in the reading device.

25. (New) The method according to claim 23, wherein the reading device transmits a device identification to the communications terminal, the decision is made in the communications terminal additionally taking into account the device identification, and the result of the decision is transmitted to the reading device.

26. (New) The method according to claim 21, wherein at least certain admission tickets are assigned to a particular user, and with the decision about access authorization it is checked whether the respective certain admission ticket is assigned to the user, who is identified through a user identification stored in the memory module.

27. (New) The method according to claim 21, wherein the reading device transmits a digitally signed device identification to the communications terminal, and the reading device is authenticated in the communications terminal based on the device identification before data stored in the memory module is transmitted to the reading device.

28. (New) The method according to claim 27, wherein, following a positive authentication of the reading device, a user identification, with a digital signature, stored in the memory module, is transmitted to the reading device, and the reading device authenticates the user of the communications terminal based on the user identification.

29. (New) The method according to claim 21, wherein, after a positive decision has been made, an access confirmation is transmitted by the reading device to the memory module.

30. (New) The method according to claim 21, wherein the contactless interface is supplied with energy by the reading device.

31. (New) A system for ordering, loading, and using admission tickets, which system includes a mobile network in which a multiplicity of users are able to communicate by mobile communications terminals, and to which mobile network at least one reservation center is connected, which system includes access-controlled service devices, for the access to which service devices the admission tickets are used, the service devices being provided with reading devices which include transceivers for exchanging of data by a contactless interface, the communications terminals each containing a loading module, which loading module stores received admission tickets in a memory module of the respective communications terminal, the communications terminals each including a communications module that exchanges data between the memory module and one of the reading devices by a transceiver by the contactless interface, which system includes decision-making modules, which decision-making modules make decisions about the access authorization of the user of one of the communications terminals taking into account ticket information contained in the admission tickets, and the reading devices being connected to access devices, which, in accordance with the decision made, grant or deny the user access to one of the service devices, wherein

the reservation center includes an ordering module which receives orders, by various order channels, with order data, for admission tickets, the order data comprising the call number of one of the communications terminals, and

the reservation center includes a transmission module which transmits ordered admission tickets, by a mobile network, to that communications terminal to which the call number contained in the order data is assigned.

32. (New) The system according to claim 31, wherein the admission tickets each contain a ticket number provided with a digital signature, the reservation center includes a table with stored access data, the reservation center is connected to the reading devices by a telecommunications network, the reservation center includes an updating module which transmits the access data by the telecommunications network to one of the reading devices, and the decision-making modules are located in the reading devices and make decisions about access authorization taking into account the access data and by checking the signature.

33. (New) The system according to claim 32, wherein the admission tickets contain ticket information about at least one of the access-controlled service devices, the decision-making modules make decisions about the access authorization taking into account the ticket information, and the communications terminals each include a cancellation module, which, with a positive decision, marks as used the admission ticket stored in the respective memory module.

34. (New) The system according to claim 33, wherein said decision-making modules are located in the reading devices.

35. (New) The system according to claim 33, wherein the reading devices each include an identification module which transmits a device identification to one of the communications terminals, the decision-making modules are located in the communications terminals, and the decision-making modules make decisions about the access authorization taking into account in addition the device identification and transmit results of the decisions in each case to one of the reading devices.

36. (New) The system according to claim 31, wherein at least certain admission tickets include a user identification, the memory modules each contain a user identification, and the decision-making modules, in deciding about the access authorization, check whether the user identification of the respective admission ticket coincides with the user identification in the respective memory module.

37. (New) The system according to claim 31, wherein the reading devices each include an identification module, which transmits a digitally signed device identification to one of the communications terminals, and the communications terminals each include a first authentication module, which authenticates a respective reading device based on the device identification.

38. (New) The system according to claim 37, wherein the memory modules each contain a user identification, the first authentication module transmits the stored user identification with a digital signature to the respective reading device, after a positive authentication of the reading device, and the reading devices each include a second authentication module, which authenticates the user of the respective communications terminal based on the user identification.

39. (New) The system according to claim 31, wherein the reading devices each include a confirmation module, which, after a positive decision has been made, transmits an access confirmation to the respective memory module.

40. (New) The system according to claim 31, wherein the contactless interface is supplied in each case with energy by the reading devices.

IN THE ABSTRACT

Please cancel the original Abstract page 19 in its entirety and insert therefor

ABSTRACT OF THE DISCLOSURE

A method and system for ordering, loading, and using admission tickets for access to access-controlled service devices, in which admission tickets are ordered from a reservation center through transmission of order data by an order channel. The order data includes the call number of a mobile communications terminal to which the ordered admission tickets are transmitted by a mobile network and are stored there in a memory module. The data exchange between this memory module and a reading device of the service device takes place over a contactless interface. Decisions about the access authorization of the user of the communications terminal are made, for example, in the reading device or in the communications terminal, taking into account the ticket information contained in the admission ticket, for example, limited to a digitally signed ticket number or with indications about the respective service device. And, in accordance with the decision, access to the service device is given or denied to the user through an access device connected to the reading device.

REMARKS

Favorable consideration of this application, as presently amended, is respectfully requested.

The present preliminary amendment is submitted to place the above-identified application in more proper format under United States practice. By the present preliminary

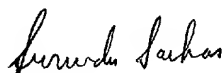
amendment original Claims 1-20 are canceled and new Claims 21-40 are presented for examination. New Claims 21-40 are deemed to be self-evident from the original disclosure, including original Claims 1-20, and thus are not deemed to raise any issues of new matter. Any differences between new Claims 21-40 and original Claims 1-20 are deemed to at most broaden the scope of new Claims 21-40.

A new Abstract believed to be in more proper format under United States practice is also submitted herein.

The present application is believed to be in condition for a full and thorough examination on the merits. An early and favorable consideration of the present application is hereby respectfully requested.

Respectfully submitted,

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Serial No: _____

Amendment Filed on: _____

10-03-01

IN THE CLAIMS

--Claims 1-20 (Canceled).

Claims 21-40 (New).

IN THE ABSTRACT

New.--

Method and System for Ordering, Loading and Using Admission Tickets

This invention relates to a method and a system for ordering, loading and using admission tickets for access to access-controlled service devices.

In generally known methods and systems for ordering admission tickets, the order is carried out by means of telephone call, through a mobile or fixed-installed telephone apparatus, to a reservation center, which informs the interested customer, for example by means of spoken menu presentation, about events and/or performances, and receives reservations, or respectively orders, of admission tickets from the customer via the dialing keys of his telephone apparatus. The reservations and orders are typically stored in a database and forwarded to a respective organizer, for example, who prepares the desired admission tickets for the customer to collect, or the desired admission tickets are sent to the customer directly by mail, it being possible for the billing to take place by dispatched invoice, by cash payment upon collection, or by telephone bill. Drawbacks of such methods and systems are, for example, that considerable time passes between the ordering and the handing over of the admission tickets to the customer or that it is not always ensured that admission tickets ordered are also collected.

For automated access control of access-controlled service devices, such as, for example, means of public transportation, secured buildings, halls or exhibition grounds, systems and methods are known in which reading devices are typically used that are able to read the admission tickets and which are connected to access devices that automatically open doors or barriers on the basis of the information read in the admission tickets and clear entry to respective access-controlled devices. In particular in the case of secured buildings or places of employment where the recording of working time is linked to the access control, use of personal chipcards is known which serve the authentication of persons and the automatic access control connected therewith. In general, such personal chipcards are designed in a targeted way only for this special application and, as a rule, the data, relating to persons and application specific, is only seldom changed.

Described in the patent publication DE 43 01 039 C2 is a system for administration of jointly used motor vehicles which system combines the telephone reservation described above and the access control with a personal

chipcard. In the system according to DE 43 01 039 C2, the customer clarifies the reservation by telephone with a center. A computer with a reservation program transmits customer reservation data, in accordance with the reservation made, by means of a modem via the telephone network and from a
5 fixed station with a wireless telephone to a vehicle, where they are able to be stored. The customer is equipped with a chipcard on which his customer number and an encrypted code is stored. The chipcard is inserted into a portable infrared hand apparatus that is able to communicate with a board computer. The access authorization is established through the exchange and
10 the encryption of random numbers and, if applicable, the vehicle door opened. Inside the vehicle, the chipcard is inserted into a card reader and the authorization to drive is checked on the basis of the stored reservation data. The chipcard used as admission ticket in the system according to DE 43 01 039 C2 is designed in such a way, however, that it can only be used as an
15 admission ticket in a targeted way for this application.

Described in the patent application EP 713 198 A2 is an electronic ticket sale system in which electronic tickets can be loaded on a chipcard by the customer at a sales terminal which has data input and data display means in exchange for electronic payment from the chipcard. According to EP 713 198
20 A2, the data exchange between the sales terminal and the chipcard can take place through a contactless interface or an interface having contacts. In the ticket sale system according to EP 713 198 A2, a plurality of sales terminals can be connected through communications links, in particular the telephone network, to one or more ticket sale centers, which ticket sale centers transmit
25 the requested tickets to the sales terminal from which the tickets have been requested.

Described in the patent application WO 98/58510 is a mobile radio telephone with a removable SIM card (Subscriber Identification Module), that has at least one wireless interface, for example an inductive interface or an
30 infrared interface, via which the SIM card is able to exchange data with an external device without using a mobile telephone network. According to WO 98/58510, the external device can be an access-control device which releases

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the access to a protected zone in exchange for receipt of an electronic key stored on the SIM card.

Described in the patent application WO 99/09502 is an electronic commerce system in which it is possible to order electronic tickets from a service providing system by means of a mobile radio telephone over a mobile radio network. According to WO 99/09502, the user identification of the ordering user is transmitted in the ticket order by the mobile radio telephone to the service providing system. According to WO 99/09502, the ticket order is passed on by the service providing system to a ticket issuing system, the user identification in the service providing system being replaced by a customer number of the respective user. According to WO 99/09502, the ordered ticket is subsequently transmitted by the ticket issuing system via the service providing system to the mobile radio telephone, from which the ticket order was placed, and is stored there, for example on a chipcard. According to WO 99/09502, the stored tickets can be used as admission tickets for admission to access-controlled service devices, for example in a cinema, the tickets being transmitted to the service device, for example via a contactless interface.

It is an object of the present invention to propose a new method and a new system for ordering, loading and using admission tickets for access to access-controlled service devices which in particular are able to be used in a flexible way for the most various access-controlled service devices.

According to the present invention, this object is achieved through the features of the independent claims. Further advantageous embodiments follow moreover from the dependent claims and from the description.

In particular this object is achieved through the invention in that admission tickets for access to access-controlled service devices, such as, for example, means of public transportation, secured buildings, halls or exhibition grounds, are ordered from a reservation center, through transmission of order data via an order channel, of various possible order channels, to this reservation center, the order data containing the call number of a mobile telecommunications terminal, the mobile telecommunications terminal being, for example, a mobile radio telephone or a laptop or palmtop computer with

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suitable communications module for mobile networks, ordered admission tickets being transmitted via a mobile network, for instance a GSM or UMTS network, to the communications terminal, to which the said call number is assigned, received admission tickets being stored in a memory module, for

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example on a chipcard, in particular a SIM (Subscriber Identity Module) card of the said communications terminal, data being exchanged between the memory module and a reading device of a said service device via a contactless interface, for example an infrared interface, for instance a High Speed Infrared (HSIR) interface or an IrDA (Infrared Data Association) interface, an inductive interface, e.g. a Radio Frequency Identification (RFID) interface, a home RF (Radio Frequency) interface, a Digital European Cordless Telecommunications (DECT) interface or another Cordless Telecommunications System (CTS) interface or a high frequency radio interface, for instance a so-called "Bluetooth interface," decisions about access authorization for the user of the said communications terminal being made taking into account ticket information contained in said admission tickets, and, in accordance with the decision made, access for the user to the respective service device being granted or denied through an access device connected to the said reading device. The advantage of this procedure is that admission tickets for the most various access-controlled service devices can be ordered over the most various order channels, for example in writing, by telephone with a fixed-installed telephone, with the said mobile communications terminal, by means of a dedicated input terminal, or by means of a personal communications terminal, for example via the Internet, and, independently of the order channel used and of the orderer, the ordered admission ticket is loaded in a memory module of the mobile communications terminal to which the specified call number is assigned, by means of which mobile terminal the respective user can visit a respective access-controlled service device without further effort and without time delay.

In an embodiment variant, admission tickets each contain a ticket number that is provided with a digital signature. An admission ticket stored in the memory module is transmitted to the said reading device. Access data are transmitted from the said reservation center to the said reading device, and the decision about access authorization is made taking into consideration these access data and by checking the said signature. This embodiment variant is advantageous if the data structure of the admission ticket is supposed to be kept simple and if the activities for the processing of the admission ticket are supposed to be moved into the reading device of the service device. The disadvantage consists at most in that the reading device of the service device has to be supplied with current data by the reservation center, so a

communication link is necessary between the reading device of the service device and the reservation center.

In an alternative embodiment variant, the admission tickets contain ticket information about at least one access-controlled service device, for example
 5 the identity of a theater or a sports stadium, the date of a performance, or respectively of a sports event; the decision about access authorization is made taking into consideration this ticket information, and in the case of a positive decision the admission ticket stored in the memory module is marked as used. The advantage of this variant consists in that access-controlled service devices
 10 do not have to be updated with current data, and therefore can be set up autonomously without communication link.

In a first sub-variant of the last-mentioned embodiment variant, ticket information is transmitted to the said reading device, and the decision about access authorization for the respective user is made in this reading device. In
 15 a second sub-variant of the last-mentioned embodiment variant, the reading device transmits a clear device identification to the respective communications terminal; the decision about access authorization for the respective user is made in this communications terminal taking into consideration in addition the said device identification, and the result of this decision is transmitted to the
 20 said reading device. The second sub-variant is advantageous above all when the reading device of the access-controlled service device is supposed to be designed as simple as possible, in particular without networking of the reading device.

In an embodiment variant, at least certain admission tickets are assigned
 25 to a particular user, and with the decision about access authorization it is checked whether a respective certain admission ticket is assigned to the user, who is identified through a user identification in the memory module.

In an embodiment variant, the reading device transmits a digitally signed, unambiguous device identification to the communications terminal, and
 30 the reading device is authenticated in the communications terminal on the basis of this device identification before data stored in the memory module are transmitted to the reading device. This has the particular advantage that admission tickets are not received, or respectively marked as used, by unauthorized reading devices.

In an embodiment variant, following a positive authentication of the reading device, a user identification stored in the memory module is transmitted with a digital signature to the reading device, and the reading device authenticates the user of the said communications terminal on the basis of this user identification.

In an embodiment variant, following a positive decision by the reading device, an access confirmation is transmitted to the said memory module regarding successful admission. This has the advantage that the respective user is able to prove at a later point in time the access to the respective service device on the basis of this admission confirmation.

In an embodiment variant, the said contactless interface is supplied with energy by the said reading device, for example by means of induction. This has the particular advantage that an exchange of data between the memory module and the reading device can take place even with turned-off communications terminal.

In addition to the method according to the invention, the invention also relates to a suitable system for execution of this method.

An embodiment of the present invention will be described in the following on the basis of an example. The example of the embodiment is illustrated by the single, attached figure, which

shows a schematic block diagram that presents a communications terminal which is connected via a mobile network to a reservation center and is able to communicate with the reading device of an access-controlled service device via a contactless interface.

An interested customer is able to order admission tickets for the most various access-controlled service devices 3, such as, for example, public transportation means, performing arts buildings (e.g. theaters or opera houses), performance halls (e.g. cinemas or concert halls) or premises for events (e.g. trade fair premises or sports premises) through transmission of order data over the most various order channels. The reference number 45 relates to an input terminal which is connected to a reservation center 4 via a communications link. Such an input terminal 45 could be set up at places accessible to the public, for instance in public telephone booths (public

phones), at shopping centers, in railway stations or in other publicly accessible places that are frequented by many people, and can be used by interested customers, for example, to order admission tickets from the reservation center 4. The reference number 51 relates to a personal communications terminal, for example a personal computer with communications modules which is connected to the reservation center 4 via a telecommunications network 5, for example the public switched telephone network or the Internet, and is able to be used by interested customers to order admission tickets from the reservation center 4. Mentioned here as further possibilities for order channels should be personal verbal ordering at a counter or ticket window of the operator of the reservation center 4 or a special marketing organization, telephone calls with verbal ordering or ordering with spoken menu presentation or with speech recognition or also by written order or ordering by means of a mobile communications terminal 1 via a mobile network 6 (for instance verbally or by means of SMS or USSD messages), in the case of the verbal and written variants subsequent data entry by data typists of the reservation center 4 being possibly necessary. The order data transmitted by the interested user to the reservation center 4 comprise, for instance, indications about a specific event, for example a theatre premiere at the city theater on the 13th of May at 8 p.m., indications about the desired seating row or, if applicable, the transportation class, the number of tickets desired, indications about the type of ticket, for instance tickets in a person's name, multiple tickets (subscriptions, day passes, weekly passes, etc.) or transferable tickets, indications about mode of payment, for instance through written invoice by mail, by credit card with indication of the credit card number, billing by way of the telephone bill or, if applicable, by cash payment, etc. Indicated in addition in the order data with each order is the call number of (at least) one mobile communications terminal, for example the MSISDN number (Mobile Subscriber ISDN number), on which the ordered admission tickets are supposed to be loaded.

The transmitted order data are received in the reservation center 4 by an order module 41, and are stored in a database of the reservation center 4. The reservation center 4 is implemented, for example, on a conventional communications server which has at its disposal hardware and software components to connect with mobile networks 6 and fixed networks 5 and to communicate over them. The reservation center 4 has at its disposal function

modules, for example the already mentioned order module 41 or further function modules that are described in the following paragraphs and which are implemented, for instance, as programmed software. In accordance with the obtained order data, a transmission module 44 of the reservation center 4
 5 transmits admission tickets over the mobile network 6, for example a GSM (Global System for Mobile Communication), a UMTS network (Universal Mobile Telephone System) or another mobile network, to the mobile communications terminal 1 specified through the above-mentioned call number, for instance a mobile radio telephone or a laptop or palmtop computer with suitable
 10 communications module for mobile networks 6.

The transmission of admission tickets by the reservation center 4 to communications terminals 1 takes place, for example, according to the SICAP method described in the patent document EP 0 689 368 B1, the reservation center 4 having at its disposal a short message service center (SMSC) for this
 15 purpose, for example. According to the SICAP method, transmitted in addition to the standard header in so-called SMS short messages are special codes which indicate a special service and are recognized in the identification modules of mobile communications terminals, for instance by means of suitable filters, and are processed in accordance with the special code according to a
 20 special procedure. The transmission can also take place in another way, for instance by means of USSD messages (Unstructured Supplementary Services Data) or via a data link.

The transmitted admission tickets are received in the respective mobile communications terminal 1, and are stored there, by a loading module 211, in a
 25 memory module 21, for instance on an SIM card (Subscriber Identification Module) of the mobile communications terminal 1. The loading module 211 is, for example, a special procedure activated according to the SICAP method, as mentioned above, which is implemented for instance as a programmed software module on the identification module of the mobile communications
 30 terminal 1, which is, e.g. a chipcard 2, in particular a SIM card 2 with a processor 22 and a memory module 21.

Depending upon the embodiment variant and/or application, admission tickets each contain a ticket number that is provided with a digital signature, for example, or they contain ticket information about at least one access-controlled

service device 3, for instance the identity of a theater or a sports stadium and the date of a performance, or respectively a sporting event, and, if applicable, further additional information, such as a reserved seating row or seat number, or, particularly for multiple tickets, a duration of validity or period of validity as well as a number of authorized admissions, if applicable. A respective customer is preferably able to check (in particular) the detailed marking of an admission ticket on the display of his mobile communications terminal 1, as if he had a physical admission ticket. Admission tickets can be loaded, for example, in the form of small program applications, so-called applets, on chipcards 2, which are able to handle such applets, for instance a so-called Java card (Java is a registered trademark of SUN Microsystems). Such applets, for example, can be automatically erased during marking as used, which will be described later.

The user of a mobile communications terminal 1 approaches, with his mobile communications terminal 1, a reading device 31 of an access-controlled service device 3, for which he has an admission ticket stored in a memory module 21 of the mobile communications terminal 1. Described in the following paragraphs will be different embodiment variants for the process during the ticket check between the mobile communications terminal 1 and the reading device 31 of the access-controlled service device which all have in common the exchange of data via a contactless interface 13 between the mobile communications terminal 1 and the reading device 31, for which the reading device 31 and the mobile communications terminal 1 are designed with suitable transceivers 33, respectively 11. These receivers 11, 33 are suited, for example, for an infrared interface, for example a High Speed Infrared (HSIR) interface or an IrDA (Infrared Data Association) interface, an inductive interface, for instance a Radio Frequency Identification (RFID) interface or a Home RF (Radio Frequency) interface, the inductive interface operating, for example, with a frequency situated at 13.56 MHz, a Digital European Cordless Telecommunications (DECT) interface or another Cordless Telecommunications System (CTS) interface, or a high frequency radio interface, for example a so-called "Bluetooth interface." Depending upon the type of contactless interface, the suitable transceiver in the mobile communications terminal 1 can be integrated in the housing or on the identification module 2 of the communications terminal 1. For the data

exchange with the reading device 31 via this contactless interface 13, the mobile communications terminal 1 has a communications module 212, that is implemented, for instance, as a programmed software module on the identification module 2 of the mobile communications terminal 1, which is, for example, a SIM card 2 with a processor 22 and a memory module 21. In all described embodiment variants, the decision about access authorization for a respective user of a mobile communications terminal 1 is made in a decision-making module 213, 312, the user being granted or refused access to the respective access-controlled service device 3, in accordance with the decision made, by means of an access device 32, connected to the reading device 31, for example an automatic door or barrier or a signal light or another suitable device.

In a first embodiment variant with admission tickets that each contain a ticket number that is provided, for example, with a digital signature, an admission ticket stored in the memory module 21 is transmitted to the reading device 31. The reading module 31 is supplied with current access data by an updating module 42 of the reservation center 4, for example a programmed software module, which data are stored in a table 43 in the reservation center 4. The transmission of these access data takes place over a telecommunications network 5, for instance a fixed network, for example the public switched telephone network, the Internet, a LAN (Local Area Network) or WAN (Wide Area Network), or a mobile network. The supply of the reading device 31 with current access data takes place, for example, periodically or upon query by the reading device 31. The access data contain, for example, additional ticket information for a certain ticket number or for all the access tickets reserved for the respective access-controlled service device 3. Such ticket information includes, for instance, indications about a particular performance, such as time and place, about a reserved seat, such as seat number or row, and possibly data and/or identification information relating to the access-authorized user. According to this first embodiment variant, the decision about access authorization for the respective user is made by the decision-making module 312 of the reading device 31, for example a programmed software module, taking into account the access data corresponding to the respective ticket number and by checking the above-mentioned digital signature. In this embodiment variant, access tickets that

have been used for authorized access to a respective access-controlled device 3, can be marked as used, for example through updating of the access data stored in the reservation center 4, which has been informed accordingly by the reading device 31, for instance.

- 5 In a second embodiment variant with access tickets which each contain ticket information about at least one access-controlled service device 3, decisions about access authorization are made in the decision-making modules 213, 312 taking into account this ticket information. In this second embodiment variant, the mobile communications terminals 1 each contain a cancelling
- 10 module 214, for example a programmed software module, for instance in the memory module 21 of the SIM card 2, which module, in the case of a positive decision, marks as used the respective admission ticket stored in the memory module 21, only one access authorization accordingly being marked as used in the case of multiple tickets. In this embodiment variant, the decision can be
- 15 made, in a first sub-variant, by a decision-making module 312 in the reading device 31, for instance with the aid of additional data, such as, for example, a reference clock, after the admission ticket has been transmitted, as described above, by the mobile communications terminal 1 via the contactless interface 13 to the reading device 31, the reading device 31 commanding, via the
- 20 contactless interface 13, the above-mentioned cancelling module 214 to mark the respective ticket as used following a positive decision. In a second sub-variant, the reading device 31 contains an identification module 314, by means of which the reading device 31 identifies itself with the respective mobile communications terminal in that the identification module 314, for instance a
- 25 programmed software module, transmits by means of the transceiver 33 an unambiguous device identification via the contactless interface to this mobile communications terminal 1. In this second sub-variant, the admission ticket does not need to be transmitted to the reading device 31 since the decision about access authorization for the respective user is made in the decision-
- 30 making module 213 of the mobile communications terminal 1, additionally taking into account the device identification received from the reading device 31, the decision-making module 213 being, for instance, a programmed software module in the memory module 21 of the SIM card 2, and the result of the decision-making being transmitted via the contactless interface 13 to the
- 35 reading device 31.

It should be mentioned here that the data exchange between the memory module 21 of the mobile communications terminal 1 and the reading device 31 can also take place with turned-off communications terminal 1 if the components necessary for the data transfer, in particular the contactless interface, are supplied externally by the reading device 31, for example by means of induction of a magnetic coil of the mobile communications terminal 1, for instance in the housing or in the interior of the communications terminal 1, e.g. on the SIM card 2. The protocol used for the data exchange can specify, for example, that the initiation of a respective dialog between the mobile communications terminal 1 and the reading device 31 is started by the mobile communications terminal 1 through transmission of an initiation sequence.

In an embodiment variant, certain admission tickets are assigned to a particular user, i.e. the mentioned ticket information or the access data stored in the table 43 of the reservation center 4 contain identification data about the assigned, authorized user, for instance his IMSI number (International Mobile Subscriber Identity) or his IDUI (International Debit User Identification). Consequently, with the decision about the access authorization, it is also checked whether a respective admission ticket is assigned to the user, who is identified through an identification stored in the memory module 21, for instance on the SIM card 2. If this check is carried out in the reading device 31, for instance in the decision-making module 312, the user identification stored in the memory module 21 is transmitted via the contactless interface 13 to the reading device 31. If, on the other hand, this check takes place in the mobile communications terminal 1, for instance in the decision-making module 213, the user identification stored in the memory module 21 does not have to be transmitted to the reading device 31.

In an embodiment variant, the reading device 31 always transmits, via the contactless interface 13, a digitally signed unambiguous device identification to the mobile communications terminal 1, for example as a reply to an initiation sequence, mentioned above, which starts the dialog between the reading device 31 and the mobile communications terminal 1. On the basis of this digitally signed device identification, the reading device 31, or respectively the associated access-controlled service device 3, is able to be authenticated through an authentication module 215 of the mobile communications terminal 1, the authentication module 215 being, for instance,

a programmed software module, e.g. on the memory module 21 of the SIM card 2. This makes it possible for admission tickets not to be received, or respectively marked as used, by unauthorized reading devices 31 since data stored in the memory module 21 are not transmitted to the reading device 31 until this reading device 31 has been clearly identified. In a similar way, the reading device 31 is able to authenticate a respective user in that, for example following a positive authentication of the reading device 31, a user identification stored in the memory module 21 is transmitted with a digital signature via the contactless interface 13 to the said reading device 31 from the mobile communications terminal 1, e.g. through the authentication module 215, and is authenticated there by the authentication module 311 of the reading device 31, e.g. a programmed software module.

In an embodiment variant, after a positive decision has been made, an access confirmation, for acknowledgement of the successful access to the access-controlled service device 3, is transmitted by a confirmation module 313 of the reading device 31, e.g. a programmed software module, via the contactless interface 13, to the mobile communications terminal 1, and is stored there in the memory module 21 of the SIM card 2. On the basis of this access confirmation, which is preferably provided with a digital signature by the confirmation module 313 of the reading device 31, the respective user is able to prove the access to the respective service device 3, for example at a later point in time.

It should be mentioned here that the mobile communications terminal 1, in particular the memory module 21 of the SIM card 2, can have additional software functions that make it possible for an admission ticket stored in the memory module 21 of a first mobile communications terminal 1 to be able to be transmitted to the memory module of a second mobile communications terminal 1, for example by means of the transceiver 11 via the contactless interface 13, or via the mobile network 6, e.g. by means of SMS or USSD messages, or via another suitable connection between the first and the second mobile communications terminal. In a similar way, it is also possible moreover for an admission ticket stored in the memory module 21 of a mobile communications terminal 1 to be able to be transmitted to an external chipcard, which itself has a contactless interface, for instance in the form of an integrated electro-magnetic coil, or which is connected to the communications terminal 1 for this

purpose via a (second) interface having contacts; so-called dual-slot mobile devices are already available on the market.

One skilled in the art will understand that for secured transmission and for ensuring the authenticity (genuineness) of the admission tickets and of other wirelessly transmitted identifications, for example the mentioned device identification or user identification, the mobile communications terminal 1, in particular the memory module 21, and the reading device 31 are equipped with the necessary functions for suitable signing and/or enciphering methods, for example programmed software functions. It is also possible that confidential authorities are involved in the authentication, for example when using the aid of TTP (Trusted Third Party) services, e.g. for the digital signing of identification numbers and/or admission tickets.

The billing of ordered admission tickets can take place through the reservation center 4, for example, according to the mode of payment desired by the respective user.

The area of application of the present invention is very large, and is in no way limited only to the application examples given.

Besides the sale, licensing and operation of described whole systems, it can also be interesting to sell or lease data carriers with programmed software modules stored thereon, which control a conventional communications server in such a way that it acts as a described reservation center 4, or which enable a mobile communications terminal 1 to take part in the method described, in particular in the embodiment as SIM card. Moreover the sale, leasing or the operation of reading devices 31 for access-controlled service devices 3 can also be very interesting economically. Even the sale, the leasing or the operation of input terminals 45 can be worthwhile.

Claims

1. A method for ordering, loading and using admission tickets for access to access-controlled service devices (3), in which method admission tickets are stored in a memory module (21) of a mobile communications terminal (1), in which method data are exchanged between the memory module (21) and a reading device (31) of a respective service device (3) via a contactless interface (13), in which method a decision about the access authorization of the user of the mobile communications terminal (1) are <sic. is> made taking into account ticket information contained in the said admission ticket, and in which method, in accordance with the decision made, access of the user to the respective service device (3) is granted or denied by an access device (32) connected to the said reading device, characterized by the following steps:

- ordering at least one admission ticket from a reservation center (4) through transmission of order data via an order channel, of various possible order channels, to the said reservation center (4), the order data containing the call number of the mobile communications terminal (1), and
- transmitting the ordered admission ticket via a mobile network (6) to that mobile communications terminal (1), to which the said call number contained in the order data is assigned.

2. The method according to claim 1, wherein the said admission tickets each contain a ticket number which is provided with a digital signature, the admission ticket stored in the said memory module (21) is transmitted to the said reading device (31), access data are transmitted from the said reservation center (4) to the said reading device (31), and the decision about access authorization is made taking into account these access data and by checking the said signature.

3. The method according to claim 1, wherein the said admission tickets contain ticket information about at least one access-controlled service device (3), the decision about access authorization is made taking into account this

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ticket information and with a positive decision the admission ticket stored in the memory module (21) is marked as used.

4. The method according to claim 3, wherein the said ticket information is transmitted to the said reading device (31) and the decision is made in this
5 reading device (31).

5. The method according to claim 3, wherein the said reading device (31) transmits a device identification to the said communications terminal (1), the decision is made in this communications terminal (1) additionally taking into account the said device identification, and the result of this decision is
10 transmitted to the said reading device (31).

6. The method according to one of the claims 1 to 5, wherein at least certain admission tickets are assigned to a particular user, and with the decision about access authorization it is checked whether the respective certain admission ticket is assigned to the user, who is identified through a user
15 identification stored in the said memory module (21).

7. The method according to one of the claims 1 to 6, wherein the said reading device (31) transmits a digitally signed device identification to the said communications terminal (1), and the said reading device (31) is authenticated in the communications terminal (1) on the basis of this device identification
20 before data stored in the memory module (21) are transmitted to the reading device (31).

8. The method according to claim 7, wherein, following a positive authentication of the said reading device (31), a user identification, with a digital signature, stored in the said memory module (21), is transmitted to the
25 said reading device (31), and the said reading device (31) authenticates the user of the said communications terminal (1) on the basis of this user identification.

9. The method according to one of the claims 1 to 8, wherein, after a positive decision has been made, an access confirmation is transmitted by the
30 said reading device (31) to the said memory module (21).

10. The method according to one of the claims 1 to 9, wherein the said

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contactless interface (13) is supplied with energy by the said reading device (31).

11. A system for ordering, loading and using admission tickets, which system includes a mobile network (6) in which a multiplicity of users are able to communicate by means of mobile communications terminals (1), and to which mobile network (6) at least one reservation center (4) is connected, which system includes access-controlled service devices (3), for the access to which service devices (3) said admission tickets are used, the said service devices (3) being provided with reading devices (31) which include transceivers (33) for the exchange of data via a contactless interface (13), the said communications terminals (1) each containing a loading module (211), which loading module (211) stores received admission tickets in a memory module (21) of the respective communications terminal (1), the said communications terminals (1) each including a communications module (212) that exchanges data between the said memory module (21) and one of the said reading devices (31) by means of a transceiver (11) via the said contactless interface (13), which system includes decision-making modules (213, 312), which decision-making modules (213, 312) make decisions about the access authorization of the user of one of the said communications terminals (1) taking into account ticket information contained in the said admission tickets, and the said reading devices (31) being connected to access devices (32), which, in accordance with the decision made, grant or deny the said user access to one of the said service devices (3), wherein

the said reservation center (4) includes an ordering module (41) which receives orders, via various order channels, with order data, for admission tickets, the order data comprising the call number of one of the said communications terminals (1), and

the said reservation center (4) includes a transmission module (44) which transmits ordered admission tickets, via a mobile network (6), to that communications terminal (1) to which the call number contained in the order data is assigned.

12. The system according to claim 11, wherein the said admission tickets

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each contain a ticket number provided with a digital signature, a said reservation center (4) includes a table (43) with stored access data, the said reservation center (4) is connected to the said reading devices (31) via a telecommunications network (5), the said reservation center (4) includes an
5 updating module (42) which transmits the said access data via the said telecommunications network (5) to one of the said reading devices (31), and the said decision-making modules (312) are located in the said reading devices (31) and make decisions about access authorization taking into account said access data and by checking the said signature.

10 13. The system according to claim 12, wherein the said admission tickets contain ticket information about at least one of the access-controlled service devices (3), the said decision-making modules (213, 312) make decisions about the access authorization taking into account this ticket information, and the said communications terminals (1) each include a cancellation module
15 (214), which, with a positive decision, marks as used the admission ticket stored in the respective memory module (21).

14. The system according to claim 13, wherein the said decision-making modules (312) are located in the said reading devices (31).

20 15. The system according to claim 13, wherein the said reading devices (31) each include an identification module (314) which transmits a device identification to one of the said communications terminals (1), the said decision-making modules (213) are located in the said communications terminals (1), and the said decision-making modules (312) make decisions about the access authorization taking into account in addition the said device
25 identification and transmit results of these decisions in each case to one of the said reading devices (31).

16. The system according to one of the claims 11 to 15, wherein at least certain admission tickets include a user identification, the said memory modules (21) each contain a user identification, and the said decision-making
30 modules (213, 312), in deciding about the access authorization, check whether the user identification of the respective admission ticket coincides with the user

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identification in the respective memory module (21).

17. The system according to one of the claims 11 to 16, wherein the said reading devices (31) each include an identification module (314), which transmits a digitally signed device identification to one of the said communications terminals (1), and the said communications terminals (1) each include a first authentication module (215), which authenticates a respective reading device (31) on the basis of this device identification.

18. The system according to claim 17, wherein the said memory modules (21) each contain a user identification, the said first authentication module (215) transmits the stored user identification with a digital signature to the respective reading device (31), after a positive authentication of the said reading device (31), and the said reading devices (31) each include a second authentication module (311), which authenticates the user of the respective communications terminal (1) on the basis of this user identification.

19. The system according to one of the claims 11 to 18, wherein the said reading devices (31) each include a confirmation module (313), which, after a positive decision has been made, transmits an access confirmation to the respective memory module (21).

20. The system according to one of the claims 11 to 19, wherein the said contactless interface (13) is supplied in each case with energy by the said reading devices (31).

Legend for the Reference Numerals

	1	mobile communications terminal
	11	transceiver
	13	contactless interface
5	2	SIM card (chipcard)
	21	memory module
	211	loading module
	212	communications module
	213	decision-making module
10	214	cancelling module
	215	authentication module
	22	processor
	3	service device
	31	reading device
15	311	authentication module
	312	decision-making module
	313	confirmation module
	314	identification module

	32	access device
	33	transceiver
	4	reservation center
	41	order module
5	42	updating module
	43	table with access data
	44	transmission module
	45	input terminal
	5	telecommunications network
10	51	communications terminal
	6	mobile network

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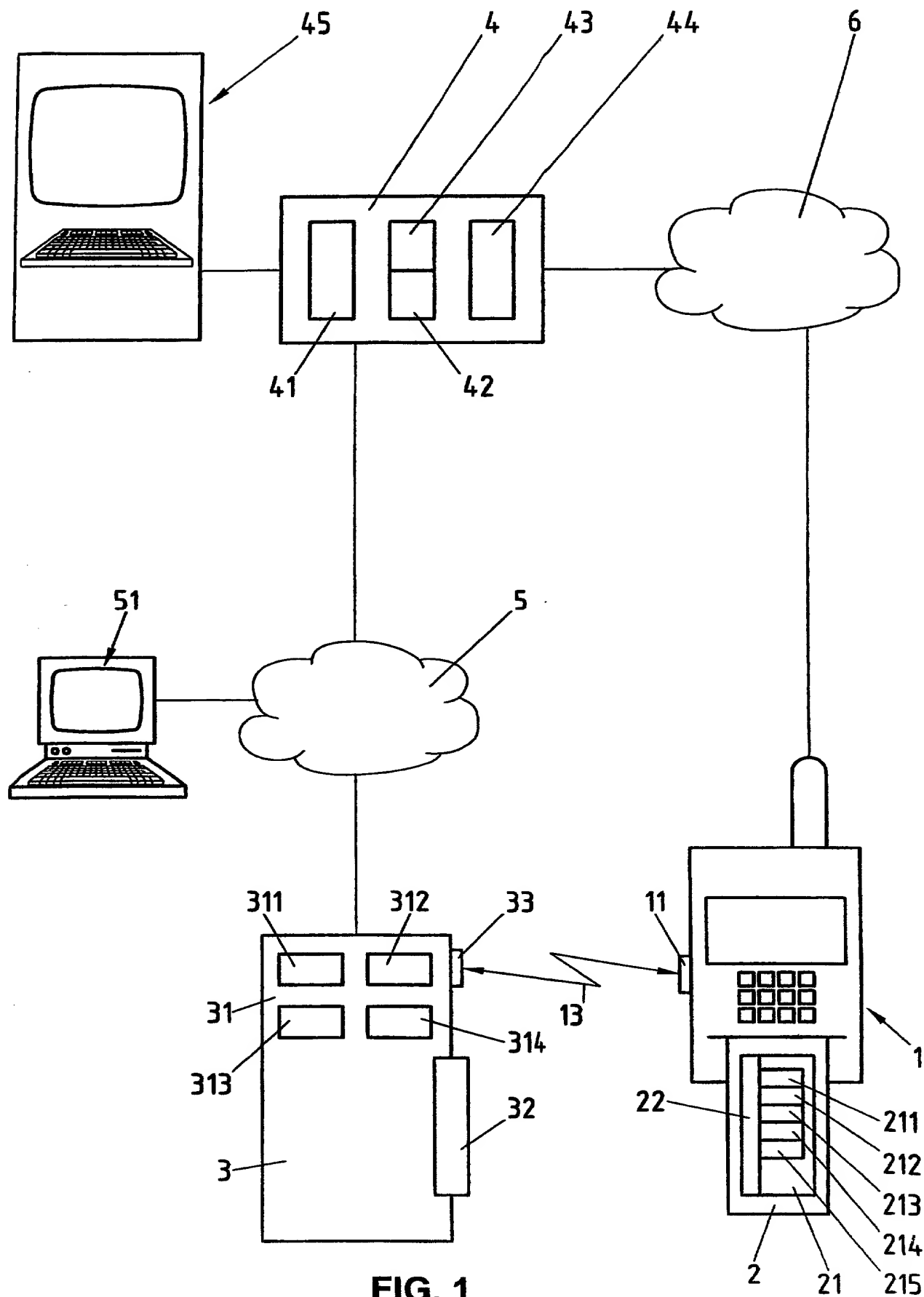


FIG. 1

German Language Declaration

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DOCKET NO. 213933US2PCT

IN RE APPLICATION OF: RITTER Rudolf et al.

SERIAL NO.: New U.S. PCT Application (Based on PCT/CH99/00142)

FILED: HEREWITH

FOR: METHOD AND SYSTEM FOR ORDERING, LOADING AND USING ADMISSION TICKETS

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Sir:

Transmitted herewith is an amendment in the above-identified application.

- ☐ No additional fee is required.
- ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 has been established by a verified statement previously submitted.
- ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 has been established by a verified statement submitted herewith.
- ☒ Additional documents filed herewith: PCT Transmittal Letter/English Translation of Specification Request for Consideration/Declaration/Form PTO-1595/Assignment/Preliminary Amendment/Drawings (1 sheet) International Search Report/Check for \$930.00/Amended Sheets (pages 2, 2a, 2b, 14, 15, 16, 17, and 18)

The fee has been calculated as shown below.

(Col. 1)		(Col. 2)		(Col. 3)	SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	CLAIMS REMAINING AFTER		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
TOTAL	* 20	MINUS	** 30	= 0	X9 =	\$	X18 =	\$.00
INDEP	* 2	MINUS	*** 3	= 0	X40 =	\$	X80 =	\$.00
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					+135=	\$	+270=	\$
TOTAL						\$	TOTAL	\$.00

A check in the amount of \$_____ is attached.

- XX Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- XX If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.



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Declaration and Power of Attorney For Patent Application

Erklärung Für Patentanmeldungen Mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

deren Beschreibung

(zutreffendes ankreuzen)

☐ hier beigelegt ist.

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Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

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As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Method and System for Ordering, Loading
and Using Admission Tickets

the specification of which

(check one)

☒ is attached hereto.

☒ was filed on 7 April 1999 as

Application Serial No. PCT/CH 99/00142

and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

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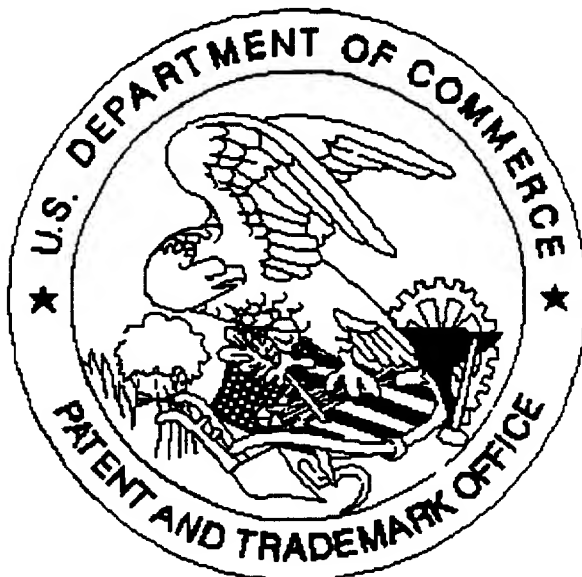
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